

WASHINGTON DEPARTMENT

SUMMIT LAKE SUMMIT LAKE ACCESS RAMP RESTORATION TN:AXXX:12-1

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ABBREVIATIONS

ALUM - ALUMINUM ANGLE APPROX.- APPROXIMATELY
BM - BENCH MARK
CL - CENTERLINE
CLR. - CLEARANCE
CONC - CONCRETE DIAMETER ELEV — ELEVATION
F.B. — FLAT BAR
F.C. — FISH CONDUIT
FTG — FOOTING
F.W. — FISHWAY GALV - GALVANIZED - GAUGE - STRUCTURAL TUBING - INSIDE DIAMETER

LFW - LOWER FISHWAY
LG - LONG
M.B. - MACHINE BOLT
MFG. - MANUFACTURER'S
MISC. - MISCELLANEOUS

MOD. – MODEL
OC – ON CENTER
OSB – ORIENTED STRAND BOARD
OD – OUTSIDE DIAMETER
PAV'T – ASPHALT CONCRETE PAVEMENT
PL – PLATE
PT – PRESSURE TREATED

PT - PRESSURE TREATED

REQ'D - REQUIRED

SEC. - SECTION

S.F. - SQUARE FEET

SHT. - SHEET

SPEC'S. - PROJECT SPECIFICATIONS

S.S. - STAINLESS STEEL

TYP - TYPICAL

UFW - UPPER FISHWAY

W.S. - WATER SURFACE

SHEET SYMBOLS

DETAIL DESIGNATION SHEET CALLED FROM SHEET LOCATED ON

DETAIL

-SECTION DESIGNATION SHEET CALLED FROM SHEET LOCATED ON

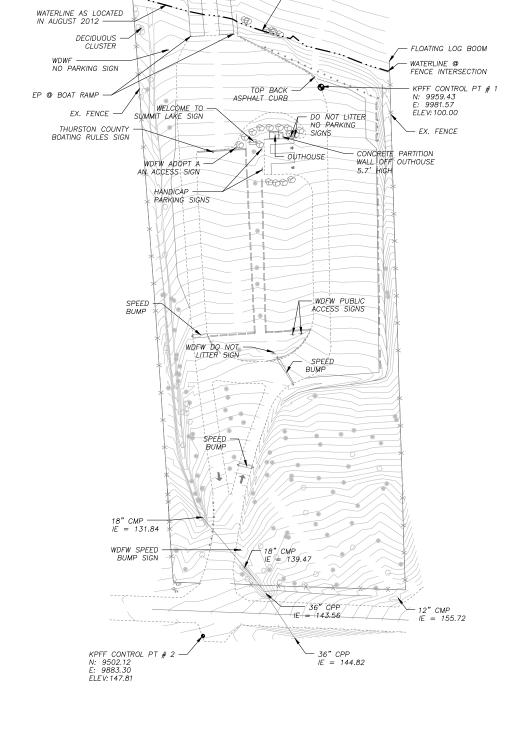
SECTION

NOTE REFERENCE

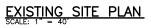
REFERENCE DESIGNATION TO NOTE APPEARING ON SAME SHEET OR A PART OR MATERIAL IN A SCHEDULE

PRELIMINARY DESIGN

PROJECT NO TN:AXXX:12-1 SHEET OF



- WATERLINE AS LOCATED IN AUGUST 2012





SITE LOCATION VICINITY MAP



PRELIMINARY DESIGN

Kpff Consulting Engineer

2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396–0150 Fax (253) 396-0162

WASHINGTON STATE DEPARTMENT OF FISH AND WILDLIFE



SYM	DATE	REVISION DESCRIPTION ADDROVED AND RELEASED FOR CONSTRUCTION	BY	BAR MEASURES ONE INCH ON ORIGINAL DRAWINGS DESIGNED BY MRK	F
APPROVED AND RELEASED FOR CONSTRUCTION CHIEF ENGINEER				CHECKED BY SWK DRAWN BY MRK DATE 10/26/2012	

SUMMIT LAKE, THURSTON COUNTY PUBLIC FISHING ACCESS RESTORATION EXISTING SITE & VICINITY MAP

PROJECT NO. TN:AXXX:12-1 SHEET OF

- 3. GRADING ACTIVITIES (SITE ALTERATION) ARE LIMITED TO THE HOURS OF 7 A.M. TO 7 P.M. MONDAY THROUGH SATURDAY AND 10 A.M. TO 5 P.M. ON SUNDAY, UNLESS OTHERWISE APPROVED WITH A WRITTEN DECISION BY THE REVIEWING AGENCY.
- 4. IT SHALL BE THE APPLICANT'S/CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONSTRUCTION EASEMENTS NECESSARY BEFORE INITIATING OFF-SITE WORK. EASEMENTS REQUIRE REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- 5. ALL UTILITY TRENCHES AND ROADWAY SUBGRADE SHALL BE BACKFILLED AND COMPACTED TO 95 PERCENT DENSITY, STANDARD PROCTOR.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT—OF—WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL APPLY, WORK IN RIGHT-OF-WAY IS NOT AUTHORIZED UNTIL A TRAFFIC CONTROL PLAN IS APPROVED BY MASON COUNTY.

SURVEY NOTES:

- 1. BASIS OF BEARING IS ASSUMED.
- 2. VERTICAL DATUM IS ASSUMED.
- 3. ASSUMPTIONS ARE BASED OFF OF KPPF CONTROL PT #1 AND KPFF CONTROL POINT #2.
- 4. BASE MAP HAS BEEN DEVELOPED FROM TOPOGRAPHIC SURVEY PERFORMED BY KPFF CONSULTING ENGINEERS IN AUGUST 2012.
- 5. UNDERGROUND UTILITIES ARE NOT A PART OF THIS SURVEY, ONLY SURFACE FEATURE ARE SHOWN.

UTILITY NOTES:

- THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITIES CONDUITS AND PIPES SHOWN ON THESE PLANS ARE NOT SHOWN. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL POTHOLE OR OTHERWISE CONFIRM CONDITIONS PRIOR TO CONSTRUCTION
- 2. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN
- 3. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINE CONDUITS OR PIPELINES SHOWN AND ANY OTHER IN-SERVICE LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

STORMWATER NOTES:

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF SNOQUALMIE STANDARDS, WSDFW STANDARDS AND THE MOST CURRENT COPY OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (WSDOT/APWA).
- TEMPORARY EROSION /WATER POLLUTION PREVENTION MEASURES SHALL BE REQUIRED IN ACCORDANCE WITH WSDOT SECTION 1-07.15, AS MODIFIED BY THE APWA SUPPLEMENT, OF THE CURRENT STATE OF WASHINGTON STANDARD SPECIFICATIONS. SHOULD THE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES NOT PROVE ADEQUATE TO CONTROL EROSION AND SEDIMENTATION, THE APPLICANT/CONTRACTOR SHALL INSTALL ADDITIONAL FACILITIES AS NECESSARY TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.
- CALL THE UNDERGROUND LOCATOR LINE (1-800-424-5555) A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.
- ALL EROSION CONTROL AND STORMWATER FACILITIES SHALL BE REGULARLY INSPECTED AND MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION.

GENERAL EXCAVATION NOTES

- 1. THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DATA. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL POTHOLE OR OTHERWISE CONFIRM CONDITIONS. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL 2 WORKING DAYS BEFORE DIGGING 1-800-424-5555.

PRELIMINARY DESIGN

kpff Consulting Engineers

2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396—0150 ax (253) 396-0162

WASHINGTON STATE DEPARTMENT OF FISH AND WILDLIFE

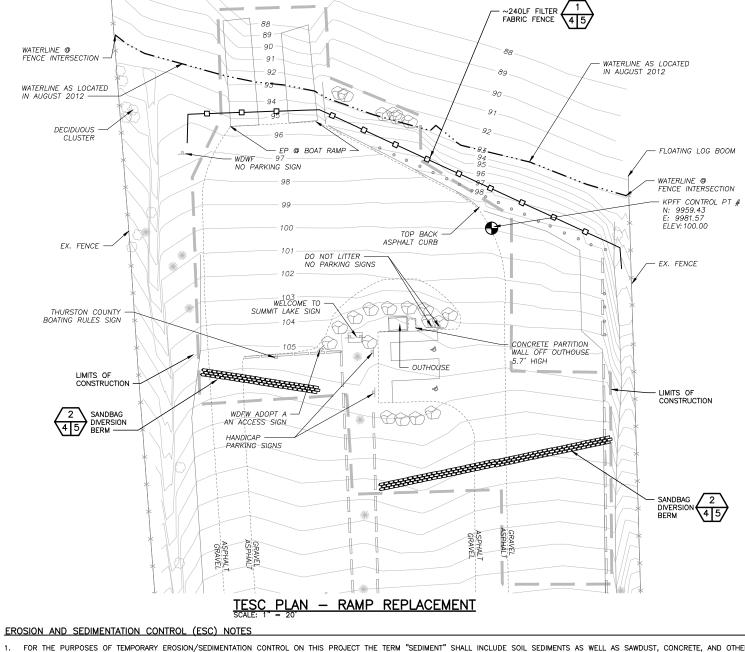


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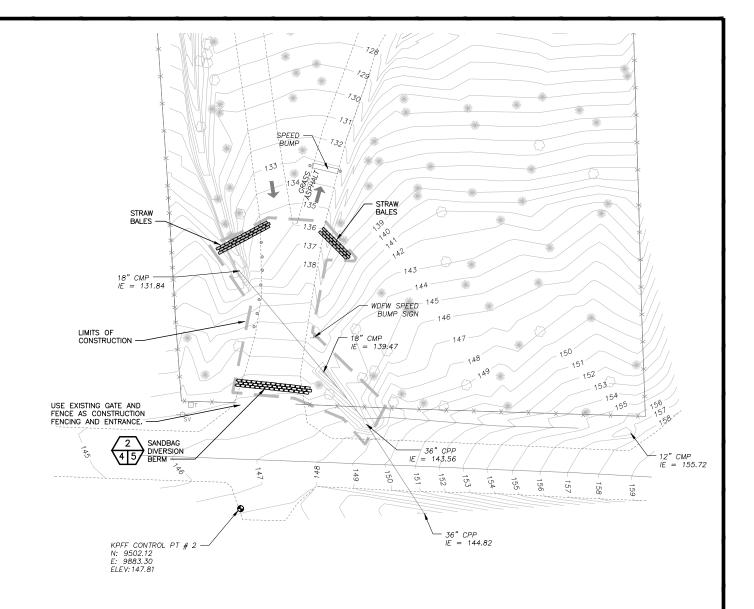
SUMMIT LAKE, THURSTON COUNTY PUBLIC FISHING ACCESS RESTORATION GENERAL NOTES

PROJECT NO TN:AXXX:12-1 SHEET

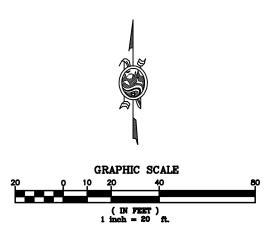
OF



- 1. FOR THE PURPOSES OF TEMPORARY EROSION/SEDIMENTATION CONTROL ON THIS PROJECT THE TERM "SEDIMENT" SHALL INCLUDE SOIL SEDIMENTS AS WELL AS SAWDUST, CONCRETE, AND OTHER DEBRIS OR PARTICULATE MATTER RESULTING FROM CONSTRUCTION ACTIVITIES.
- 2. ON-SITE EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL COMPLY WITH CONSTRUCTION STORMWATER PERMIT INCLUDING PREPARATION OF A STORMWATER POLLUTION PREVENTION PLAN AND IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. ANY PROBLEMS OCCURRING BEFORE FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR.
- . IN THE EVENT THAT EROSION OR SEDIMENTATION OCCURS ON ADJACENT PROPERTY, ALL CONSTRUCTION WORK THAT WILL AGGRAVATE THE SITUATION MUST CEASE AND THE CONTRACTOR SHALL IMMEDIATELY COMMENCE RESTORATION OR MITIGATION MEASURES. RESTORATION ACTIVITY SHALL CONTINUE UNTIL SUCH TIME AS THE PROBLEM IS RECTIFIED.
- ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE FIRST STAGE OF SITE PREPARATION.
- . SHOULD THE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES NOT PROVE ADEQUATE TO CONTROL EROSION AND SEDIMENTATION, THE CONTRACTOR SHALL INSTALL ADDITIONAL FACILITIES, AS NECESSARY, TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES AND/OR STORM DRAINAGE SYSTEMS.
- . IN ANY AREA WHICH HAS BEEN STRIPPED OF VEGETATION OR EXPERIENCED LAND DISTURBING ACTIVITIES, AND WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD EXCEEDING 48 HRS, ALL DISTURBED AREAS MUST BE IMMEDIATELY STABILIZED WITH MULCHING, GRASS PLANTING OR APPROVED EROSION CONTROL TREATMENT APPLICABLE TO THE TIME OF YEAR IN QUESTION.
- 7. ALL NECESSARY FACILITIES SHALL BE MAINTAINED ON-SITE TO PREVENT DEBRIS, DUST AND MUD FROM ENTERING AND/OR ACCUMULATING IN THE PUBLIC RIGHT-OF-WAY OR SUMMIT LAKE.
- 3. THE ESC FACILITIES SHOWN ON THIS SHEET ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS DURING THE CONSTRUCTION PERIOD. THESE ESC FACILITES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT—LADEN WATER DO NOT ENTER SUMMIT LAKE OR LEAVE THE SITE.
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY OR AS DIRECTED BY THE ENGINEER TO ENSURE THEIR CONTINUED FUNCTIONING.
- 10. THE ESC FACILITIES ON INACTIVE AREAS OF THE SITE SHALL BE CONTINUOUSLY MAINTAINED AND INSPECTED A MINIMUM OF ONCE A MONTH OR WITHIN 48 HOURS FOLLOWING A MAJOR STORM EVENT.
- 11. THE CONTRACTOR SHALL PROTECT STOCKPILE AND EXCAVATION AREAS FROM THE RELEASE OF SEDIMENT. STOCKPILES SHALL BE COVERED AT ALL TIMES WHILE NOT IN USE TO KEEP THE STORED MATERIAL DRY.
- 12. SANDBAGS, GEOFABRIC AND/OR OTHER METHODS SHALL BE USED AROUND STOCKPILE AND EXCAVATION AREAS TO PREVENT RUNOFF OF SEDIMENTS.
- 3. ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL REMAIN UNTIL FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY CONTROLS ARE NO LONGER NEEDED, WHICHEVER IS LATER. TRAPPED SEDIMENT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.



TESC PLAN — CULVERT REPLACEMENT



PRELIMINARY DESIGN

Kpff Consulting Engineers

2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396–0150 Fax (253) 396–0162 WASHINGTON STATE

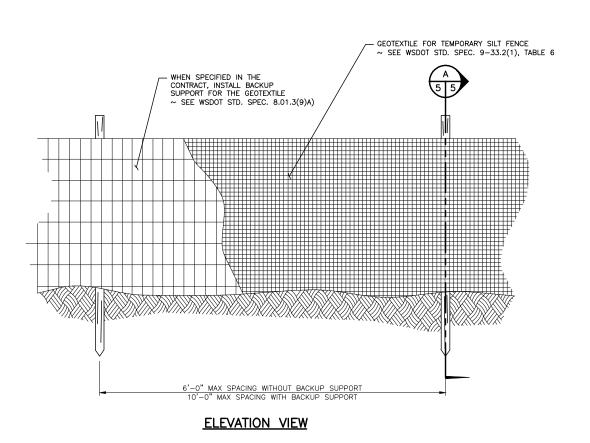
DEPARTMENT OF FISH AND WILDLIFE



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CHIEF ENGINEER DATE: PROGRAM DATE:				DRAWN BY MRK DATE 10/26/2012	

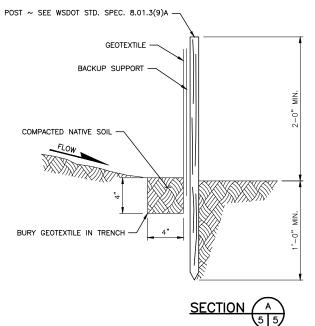
SUMMIT LAKE, THURSTON COUNTY
PUBLIC FISHING ACCESS RESTORATION
TEMPORARY EROSION &
SEDIMENTATION CONTROL PLAN

PROJECT NO.
TN:AXXX:12-1
SHEET OF

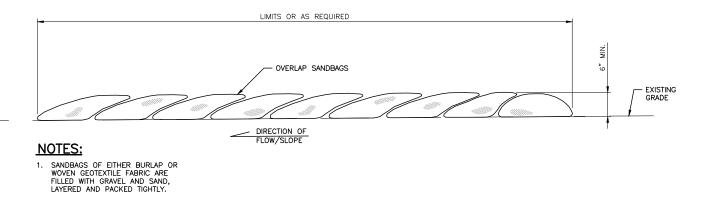


NOTES:

- MAXIMIZE DETENTION OF STORMWATER BY PLACING FENCE AS FAR AWAY FROM TOE OF SLOPE AS POSSIBLE WITHOUT ENCROACHING ON SENSITIVE AREAS OR OUTSIDE OF THE CLEARING BOUNDARIES.
- 2. INSTALL SILT FENCING ALONG CONTOURS WHENEVER POSSIBLE.
- INSTALL THE ENDS OF THE SILT FENCE TO POINT SLIGHTLY UP-SLOPE TO PRE-VENT SEDIMENT FROM FLOWING AROUND THE ENDS OF THE FENCE.
- 4. PERFORM MAINTENANCE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS 8.01.3(9)A AND 8.01.3(15).







3/4" x 3/4" WOODEN
STAKE (TYP.)

SEDIMENT TRAPPING
AREA (TYP.)

WW ... WWY.

ELEVATION VIEW

SANDBAG DIVERSION BERM DETAIL 2
SCALE: NTS 4 5

STRAW WATTLES DETAIL 3
SCALE: NTS
4 | 5

PRELIMINARY DESIGN

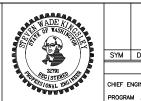
Kpff Consulting Engineers

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2. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT.

WASHINGTON STATE

DEPARTMENT OF FISH AND WILDLIFE



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	DATE	

BAR MEASURES
ONE INCH ON
ORIGINAL DRAWINGS

DESIGNED BY MRK
CHECKED BY MRK
DATE 10/26/2012

SUMMIT LAKE, THURSTON COUNTY

SUMMIT LAKE, THURSTON COUNTY

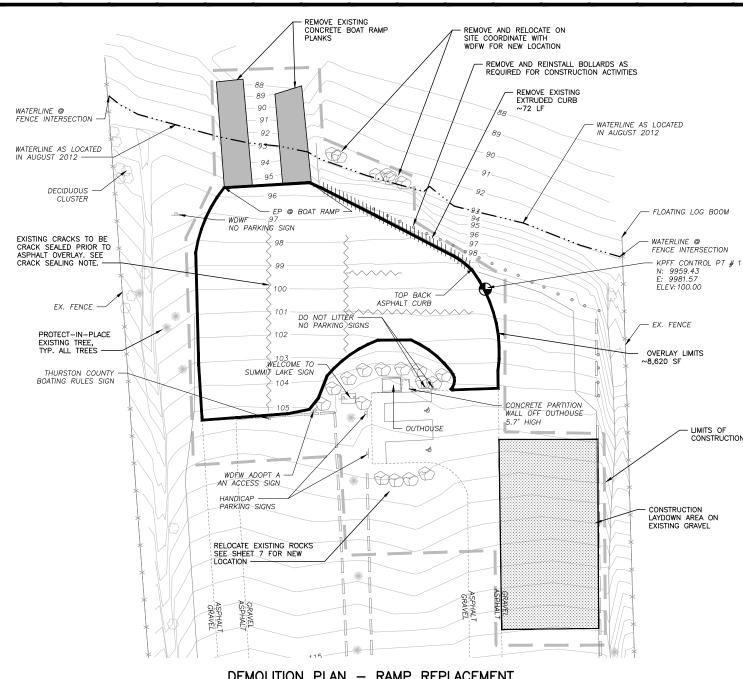
PUBLIC FISHING ACCESS RESTORATION

TEMPORARY EROSION &
SEDIMENTATION CONTROL—NOTES & DETAILS

PROJECT NO.
TN:AXXX:12-1
SHEET OF



ax (253) 396-0162



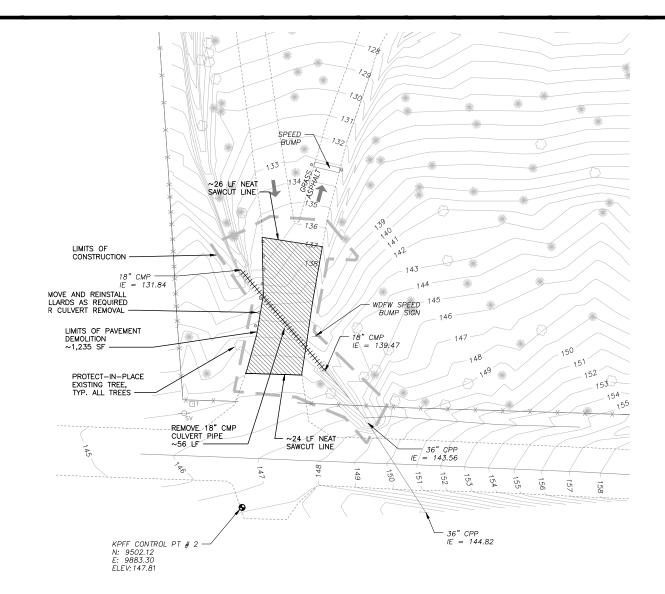
DEMOLITION PLAN — RAMP REPLACEMENT

CRACK SEALING NOTE:

- 1. CRACKS SHALL BE SEALED AND FULLY CURED PRIOR TO ASPHALT OVERLAY.
- CONTRACTOR SHALL SEAL CRACKS AS IDENTIFIED ON THE PLANS AND ANY CRACKS WIDER THAN 1/4" WITHIN THE LIMITS OF ASPHALT OVERLAY AREA.
- 3. CRACK SEALING SHALL BE PER WSDOT SPECIFICATION 5-04.2(5)C-CRACK SEALING.

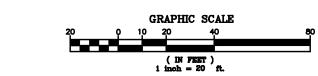
ALL CRACKS AND JOINTS 1/4" AND GREATER IN WIDTH SHALL BE CLEANED WITH A CHIPPING HAMMER, STIFF BRISTLED BROOM AND COMPRESSED AIR TO REMOVE ALL DIRT, DEBRIS AND LOOSE PAVEMENT MATERIAL; AND THEN SHALL BE FILLED COMPLETELY WITH SAND SLURRY.

THE SAND SLURRY SHALL CONSIST OF APPROXIMATELY 20 PERCENT CSS-1 EMULSIFIED ASPHALT, APPROXIMATELY 2 PERCENT PORTLAND CEMENT, WATER (IF REQUIRED), AND THE REMAINDER CLEAN NO. 4-0 PAVING SAND. THE COMPONENTS SHALL BE THOROUGHLY MIXED AND THEN POURED INTO THE CRACKS AND JOINTS UNTIL FULL. THE FOLLOWING DAY, ANY CRACKS OR JOINTS THAT ARE NOT THAT ARE NOT COMPLETELY FILLED SHALL BE TOPPED OFF WITH ADDITIONAL SAND SLURRY. AFTER THE SAND SLURRY IS PLACED, THE FILLER SHALL BE STRUCK OFF FLUSH WITH THE EXISTING PAVEMETN SURFACE AND ALLOWED TO CURE. THE HMA OVERLAY SHALL NOT BE PLACED UNTIL THE SLURRY HAS FULLY CURED.



<u>DEMOLITION PLAN - CULVERT REPLACEMENT</u>





PRELIMINARY DESIGN

Kpff Consulting Engineer 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396–0150

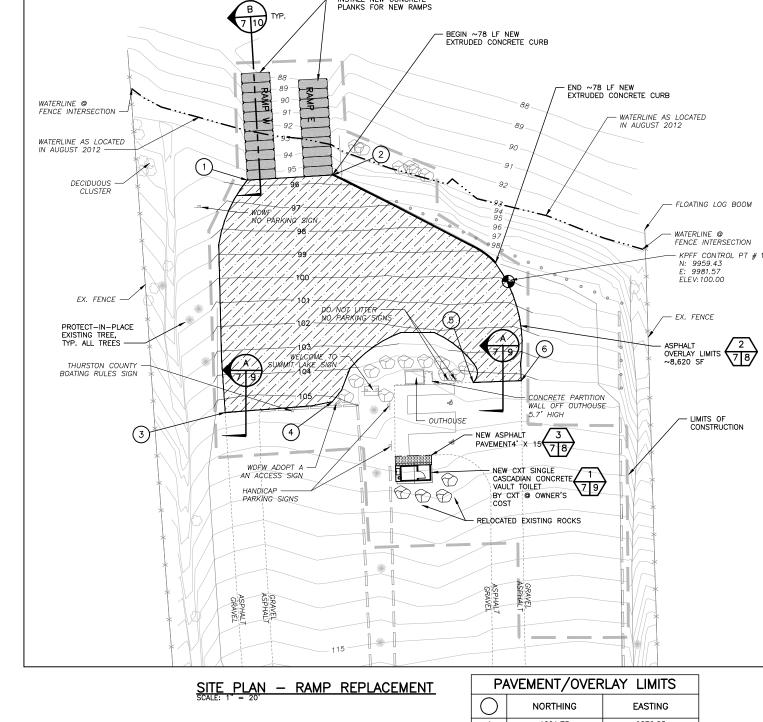
WASHINGTON STATE DEPARTMENT OF FISH AND WILDLIFE



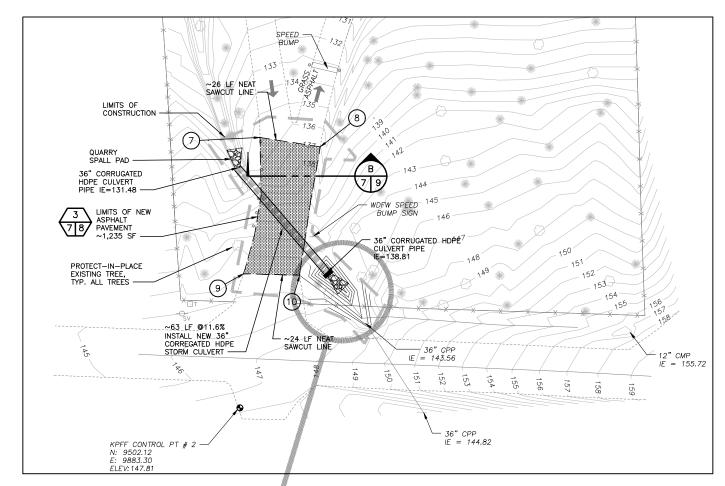
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CHIEF ENGINEER				CHECKED BY SWK DRAWN BY MRK DATE 10/26/2012	

SUMMIT LAKE, THURSTON COUNTY PUBLIC FISHING ACCESS RESTORATION DEMOLITION PLAN

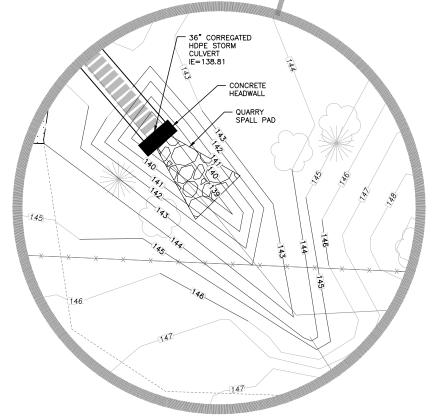
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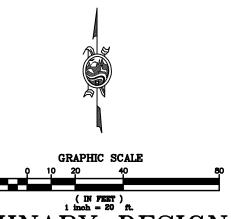
PAVEMENT/OVERLAY LIMITS						
\bigcirc	NORTHING	EASTING				
1	1001.73	9872.83				
2	1003.82	9908.45				
3	9904.90	9863.66				
4	9908.27	9909.39				
5	9917.44	9966.99				
6	9918.14	9986.96				
7	9614.79	9891.66				
8	9610.84	9916.76				
9	9558.02	9884.79				
10	9557.35	9908.20				



SITE PLAN — CULVERT REPLACEMENT



PARTIAL PLAN — CULVERT GRADING



PRELIMINARY DESIGN

kpff Consulting Engineers

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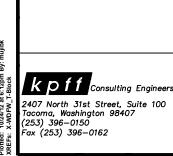
WASHINGTON STATE DEPARTMENT OF FISH AND WILDLIFE



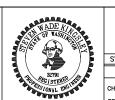
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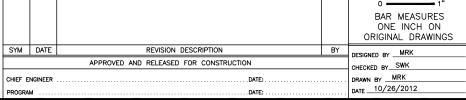
SUMMIT LAKE, THURSTON COUNTY PUBLIC FISHING ACCESS RESTORATION SITE PLAN

PROJECT NO. TN:AXXX:12-1 SHEET OF



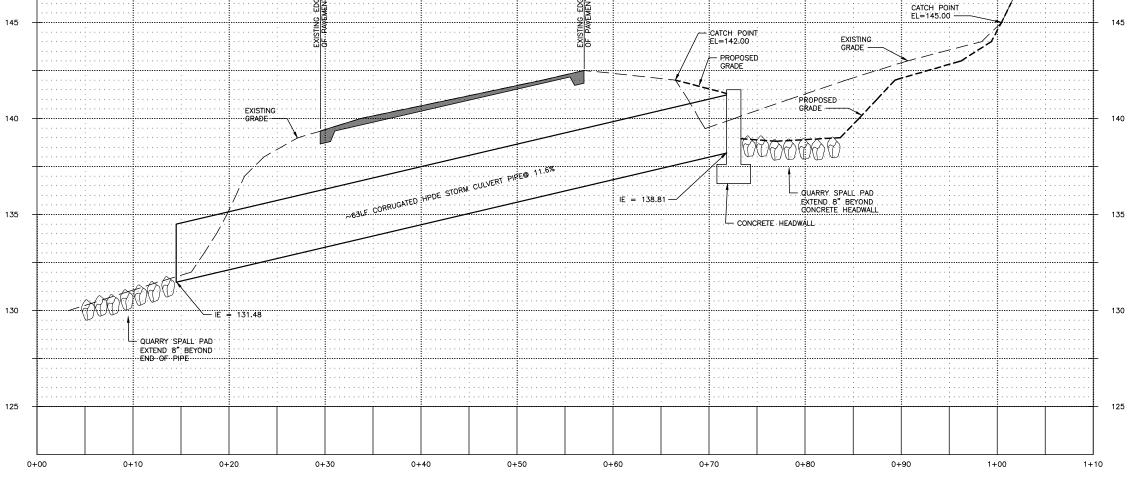
WASHINGTON STATE DEPARTMENT OF FISH AND WILDLIFE



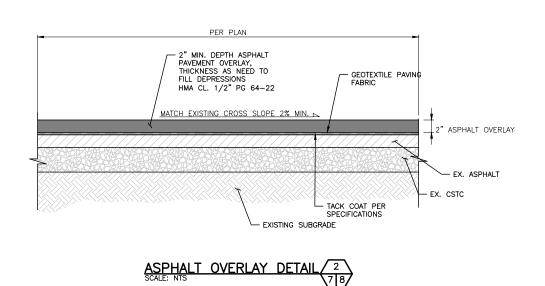


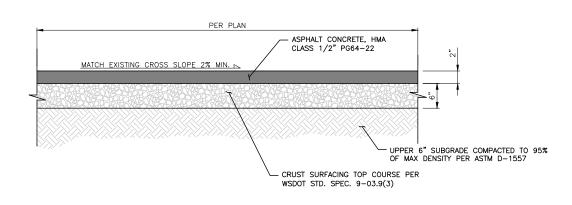
SUMMIT LAKE, THURSTON COUNTY PUBLIC FISHING ACCESS RESTORATION CULVERT PROFILE

PROJECT NO. TN:AXXX:12-1 SHEET OF



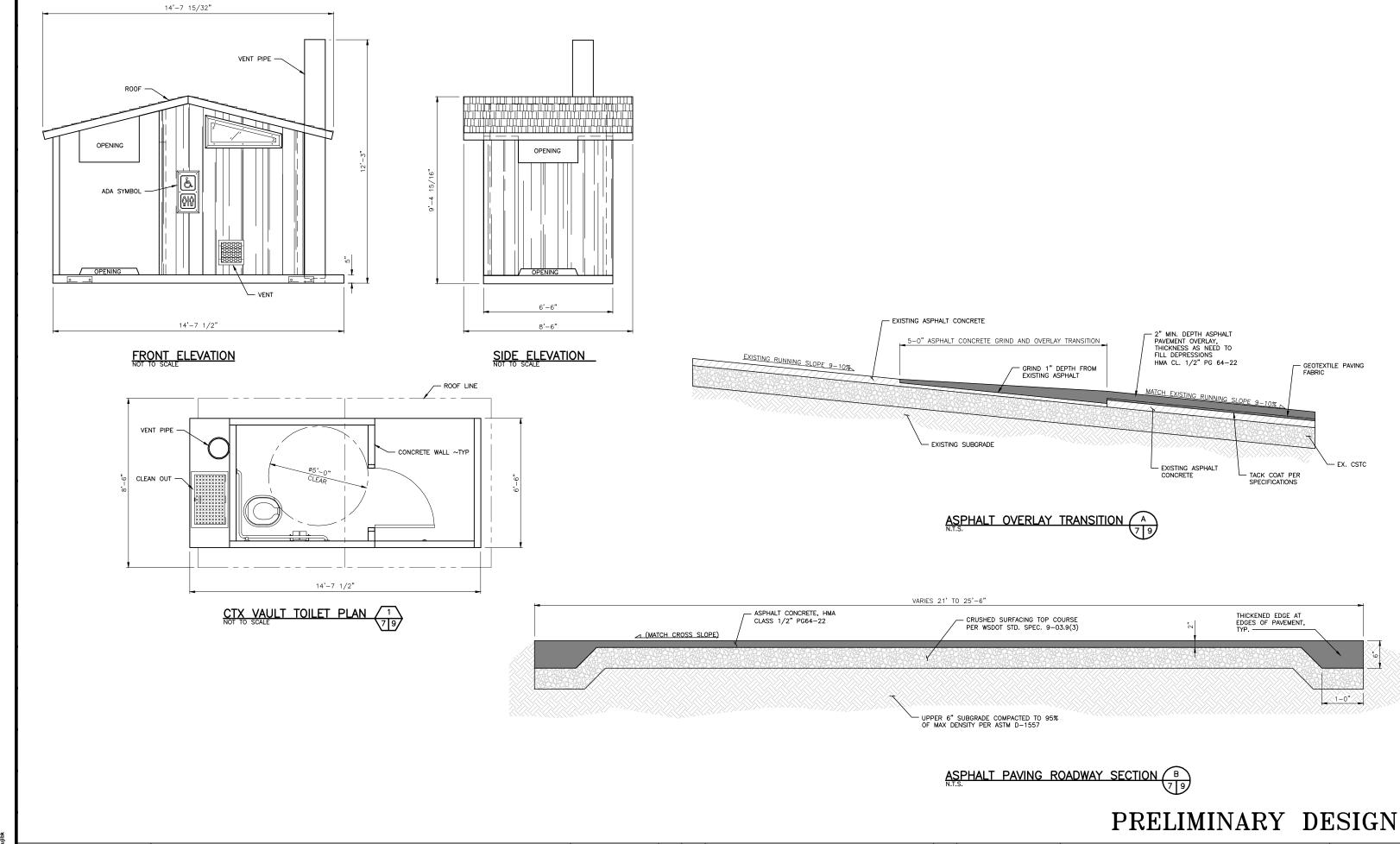
PROFILE - 36" CULVERT PIPE
SCALE: 1" = 5" H, 1"=2.5" V





ASPHALT PAVING DETAIL 3 SCALE: NTS 7 8

PRELIMINARY DESIGN



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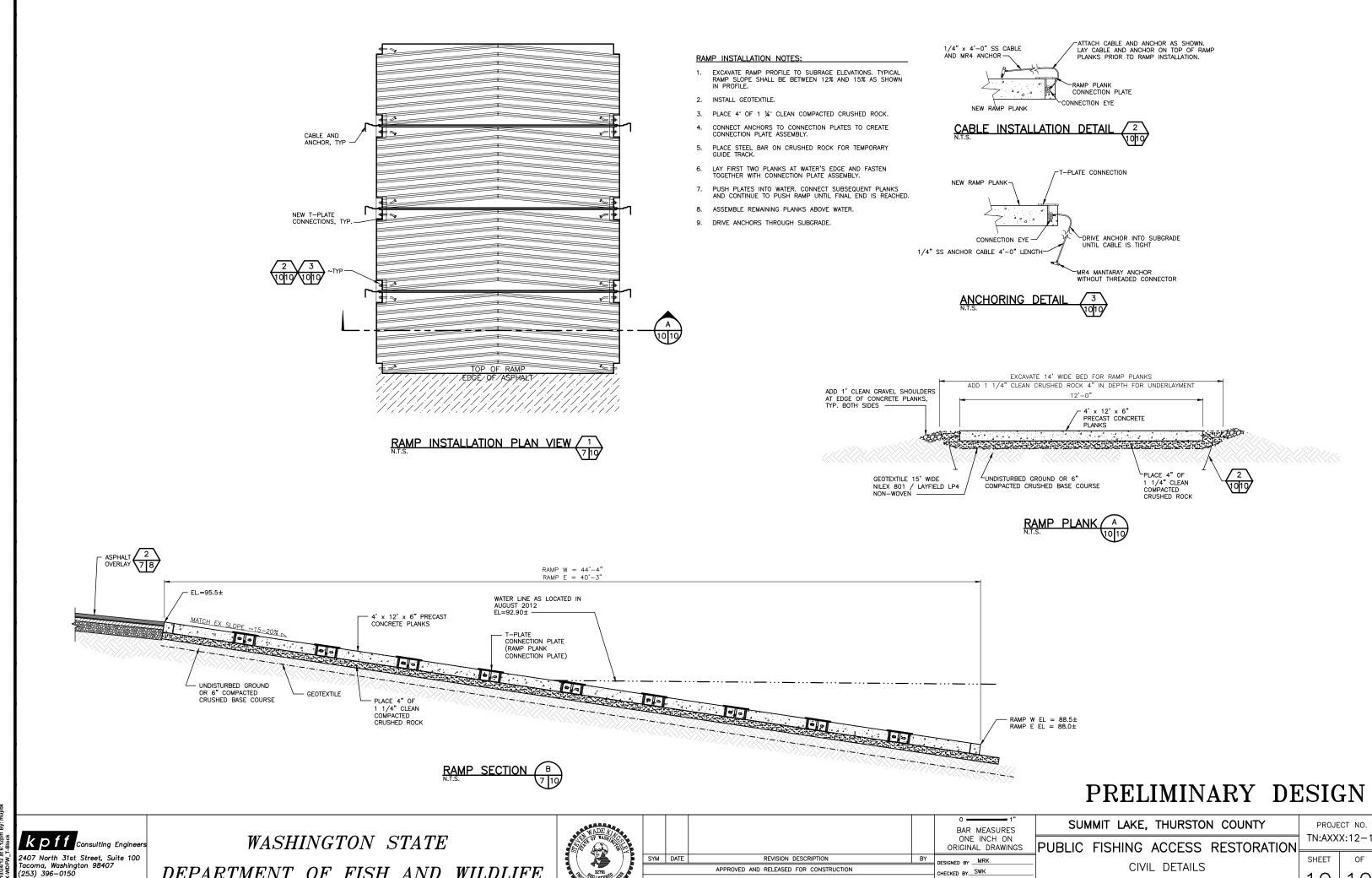
WASHINGTON STATE DEPARTMENT OF FISH AND WILDLIFE



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CHIEF E	NGINEER	DATE:		DRAWN BY MRK	
PROGRAI	v	DATE:		DATE	

SUMMIT LAKE, THURSTON COUNTY PROJECT NO. PUBLIC FISHING ACCESS RESTORATION CIVIL DETAILS

TN:AXXX:12-1 SHEET OF



CHIEF ENGINEER

APPROVED AND RELEASED FOR CONSTRUCTION

CHECKED BY SWK

DATE 10/26/2012

DRAWN BY MRK

CIVIL DETAILS

ax (253) 396-0162

DEPARTMENT OF FISH AND WILDLIFE